MDR-SA1000/SA3000/SA5000

SERVICE MANUAL

Ver. 1.0 2005.02

Photo: MDR-SA5000

US Model
AEP Model
MDR-SA1000/SA3000/SA5000
Canadian Model
MDR-SA1000/SA3000
E Model
MDR-SA3000

SPECIFICATIONS

MDR-SA1000/SA3000

Type
Open air, dynamic

Driver units
50 mm, (CCAW adopted), dome type

Power handling capacity
1,500 mW (IEC*)

Impedance
70 Ω at 1 kHz

Sensitivity
100 dB/mW

Frequency response
MDR-SA3000 : 8 – 100,000 Hz
MDR-SA1000 : 8 – 80,000 Hz

Cord
MDR-SA3000 : 3.5 m (11.5 ft), 6N-OFC litz cord
MDR-SA1000 : 3.5 m (11.5 ft), OFC litz cord

Plug
Gold-plated stereo mini plug

Mass
Approx. 265 g (9.3 oz) without cord

Supplied accessories
Operating Instructions (1), Warranty (1), Product Information (MDR-SA3000 only) (1), Carrying porch (1), Gold-plated unimatch plug adaptor
(stereo phone plug ⟷ stereo mini jack) (1)

* IEC = International Electrotechnical Commission

MDR-SA5000

Type
Open air, dynamic

Driver units
50 mm, (CCAW adopted), dome type

Power handling capacity
1,500 mW (IEC*)

Impedance
70 Ω at 1 kHz

Sensitivity
102 dB/mW

Frequency response
5 Hz – 110 kHz

Cord
3.5 m (11.5 ft), 6-N OFC litz cord

Plug
Gold-plated stereo phone plug

Mass
Approx. 260 g (9.2 oz) without cord

Supplied accessories
Stand (1), Operating Instructions (1), Warranty (1), Product Information (1)

* IEC = International Electrotechnical Commission

Design and specifications are subject to change without notice.

STEREO HEADPHONES

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Personal Audio Company
Published by Sony Engineering Corporation

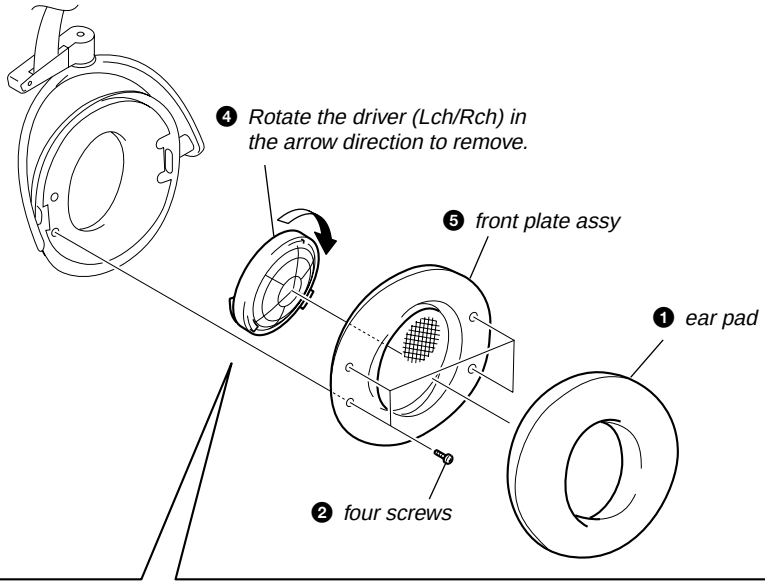
SONY®

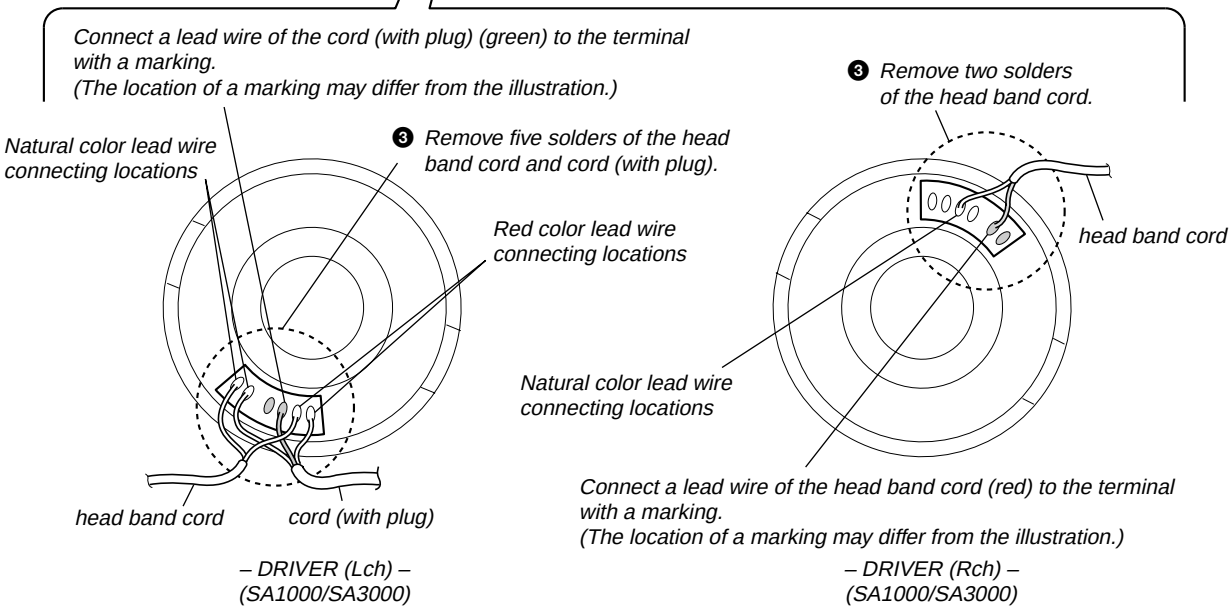
SECTION 1
DISASSEMBLY

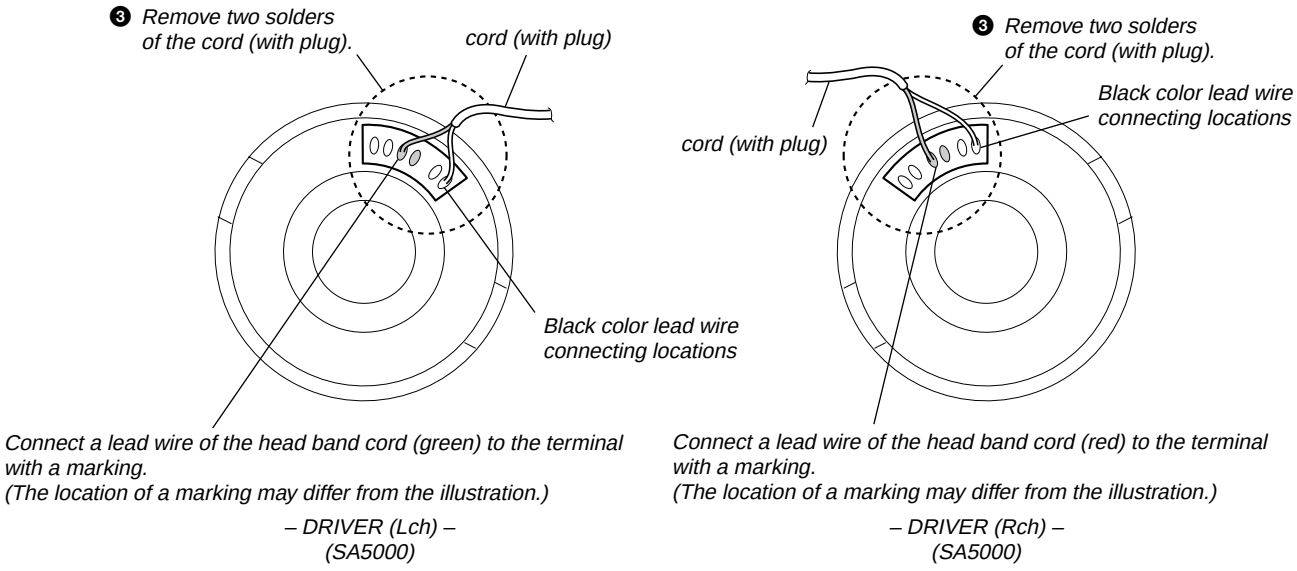
Note: Follow the disassembly procedure in the numerical order given.

DRIVER (Lch/Rch)

(For both left and right headphones, disassemble through the same procedure)




Connect a lead wire of the cord (with plug) (green) to the terminal with a marking.
(The location of a marking may differ from the illustration.)
Natural color lead wire connecting locations
❸ Remove five solders of the head band cord and cord (with plug).
Red color lead wire connecting locations
head band cord
cord (with plug)
– DRIVER (Lch) –
(SA1000/SA3000)
❸ Remove two solders of the head band cord.
head band cord
Natural color lead wire connecting locations
Connect a lead wire of the head band cord (red) to the terminal with a marking.
(The location of a marking may differ from the illustration.)
– DRIVER (Rch) –
(SA1000/SA3000)


❸ Remove two solders of the cord (with plug).
cord (with plug)
Black color lead wire connecting locations
Connect a lead wire of the head band cord (green) to the terminal with a marking.
(The location of a marking may differ from the illustration.)
– DRIVER (Lch) –
(SA5000)
❸ Remove two solders of the cord (with plug).
Black color lead wire connecting locations
cord (with plug)
Connect a lead wire of the head band cord (red) to the terminal with a marking.
(The location of a marking may differ from the illustration.)
– DRIVER (Rch) –
(SA5000)

SECTION 2
EXPLODED VIEWS

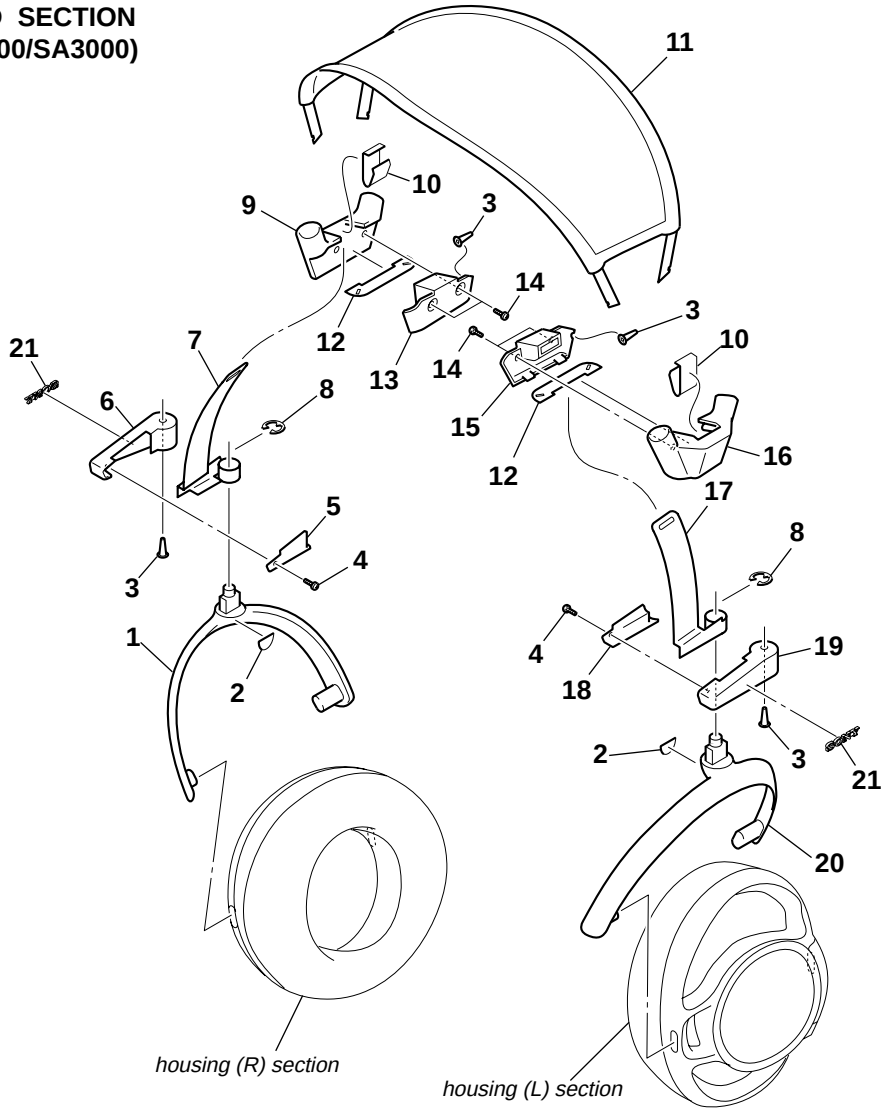
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

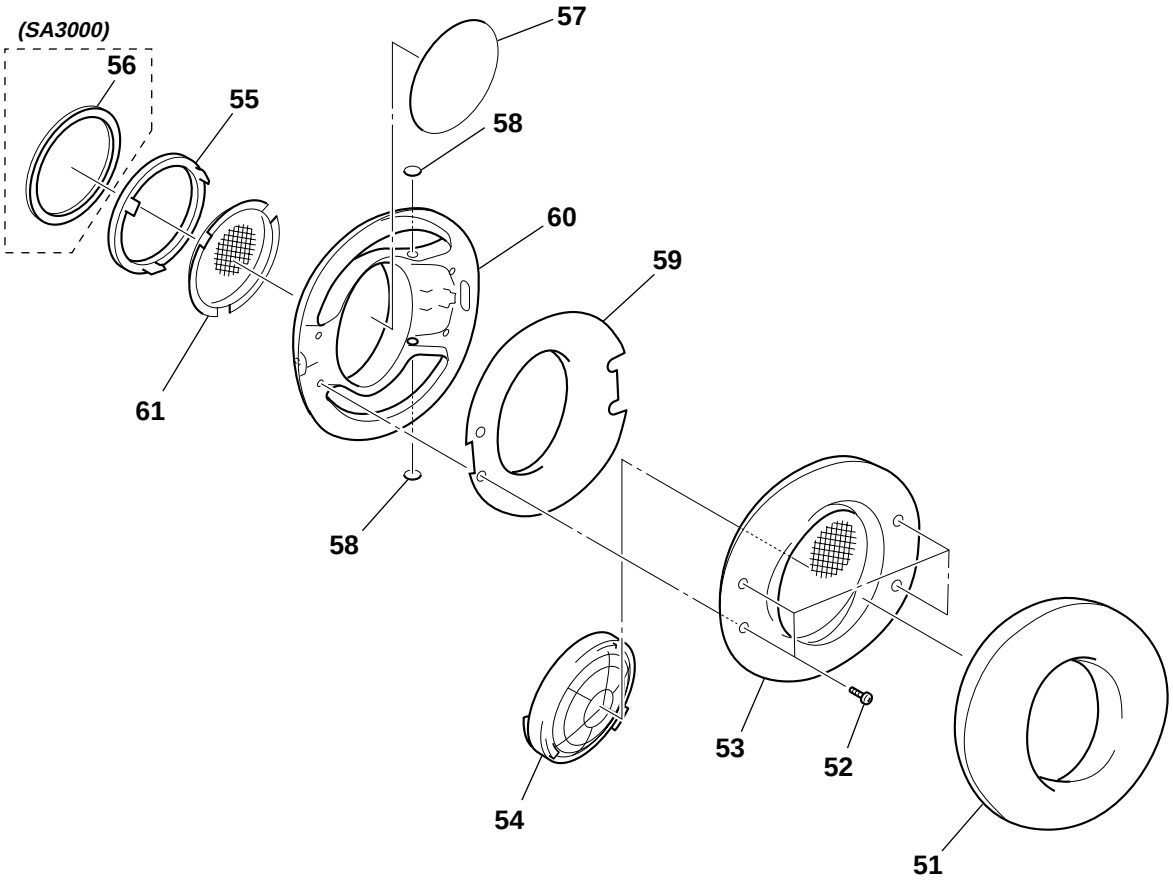
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

2-1. HEADBAND SECTION (MDR-SA1000/SA3000)



Ref. No.	Part No.	Description	Remark
1	2-546-870-01	HANGER (R) (SA3000)	
1	2-546-870-11	HANGER (R) (SA1000)	
2	2-586-769-01	SEAL, HANGER	
3	2-548-701-01	BUSHING (CORD)	
4	3-254-070-11	SCREW	
5	2-546-866-01	LID (R), HOLDER (SA3000)	
5	2-546-866-11	LID (R), HOLDER (SA1000)	
6	2-546-864-01	HOLDER (R) (SA3000)	
6	2-546-864-11	HOLDER (R) (SA1000)	
7	X-2050-496-1	SLIDER (R) ASSY	
8	2-548-700-01	RING, RETAINING	
9	2-546-860-01	CLICK CASE (R) (SA3000)	
9	2-546-860-11	CLICK CASE (R) (SA1000)	
10	2-546-883-01	SPRING (CLICK)	
11	X-2025-345-1	HEADBAND ASSY	
12	2-549-692-01	RETAINER, BAND	
13	2-546-862-01	LID (R), CLICK CASE (SA3000)	
13	2-546-862-11	LID (R), CLICK CASE (SA1000)	
14	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
15	2-546-861-01	LID (L), CLICK CASE (SA3000)	
15	2-546-861-11	LID (L), CLICK CASE (SA1000)	
16	2-546-859-01	CLICK CASE (L) (SA3000)	
16	2-546-859-11	CLICK CASE (L) (SA1000)	
17	X-2050-495-1	SLIDER (L) ASSY	
18	2-546-865-01	LID (L), HOLDER (SA3000)	
18	2-546-865-11	LID (L), HOLDER (SA1000)	
19	2-546-863-01	HOLDER (L) (SA3000)	
19	2-546-863-11	HOLDER (L) (SA1000)	
20	2-546-869-01	HANGER (L) (SA3000)	
20	2-546-869-11	HANGER (L) (SA1000)	
21	3-032-552-01	EMBLEM (NO 2.5), SONY	

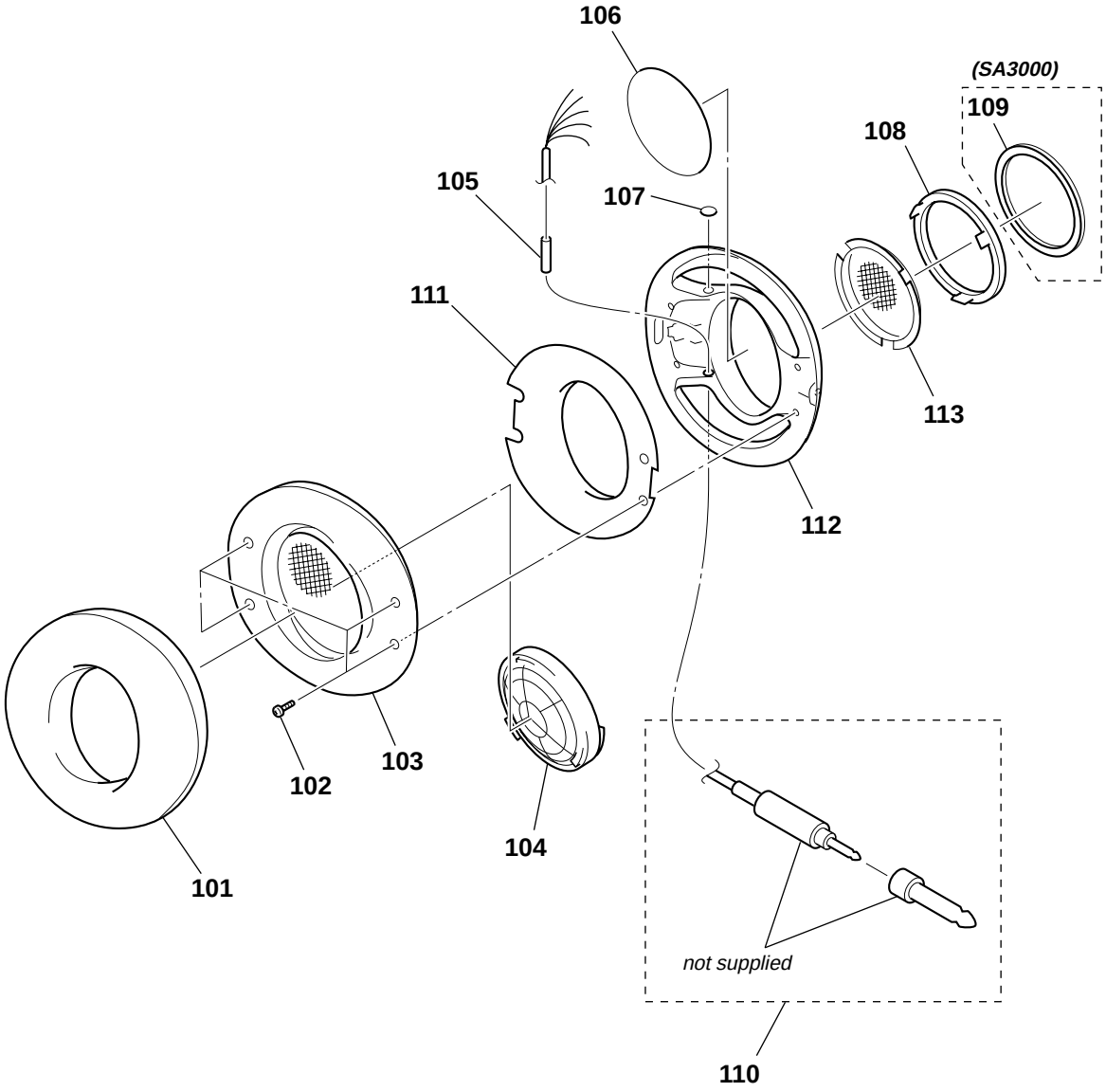
2-2. HOUSING (R) SECTION (MDR-SA1000/SA3000)



Ref. No.	Part No.	Description	Remark
51	2-546-965-01	EARPAD	
52	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
53	X-2025-344-1	PLATE (R) ASSY, FRONT (SA3000)	
53	X-2055-042-1	PLATE (R) ASSY, FRONT (SA1000)	
54	1-542-603-11	DRIVER (050F030) (SA3000)	
54	1-542-604-11	DRIVER (050F031) (SA1000)	
55	2-586-521-01	GRILLE BASE (R) (SA3000)	
55	2-586-551-01	GRILLE BASE (R) (SA1000)	

Ref. No.	Part No.	Description	Remark
56	2-546-875-01	RING, ORNAMENTAL (SA3000)	
57	2-546-885-01	SHEET, DRIVER	
58	2-549-886-01	CAP, DUMMY (SA3000)	
58	2-549-886-11	CAP, DUMMY (SA1000)	
59	2-546-877-01	HOUSING	
60	2-546-872-01	FRAME (R) (SA3000)	
60	2-546-872-11	FRAME (R) (SA1000)	
61	2-546-873-01	GRILLE	

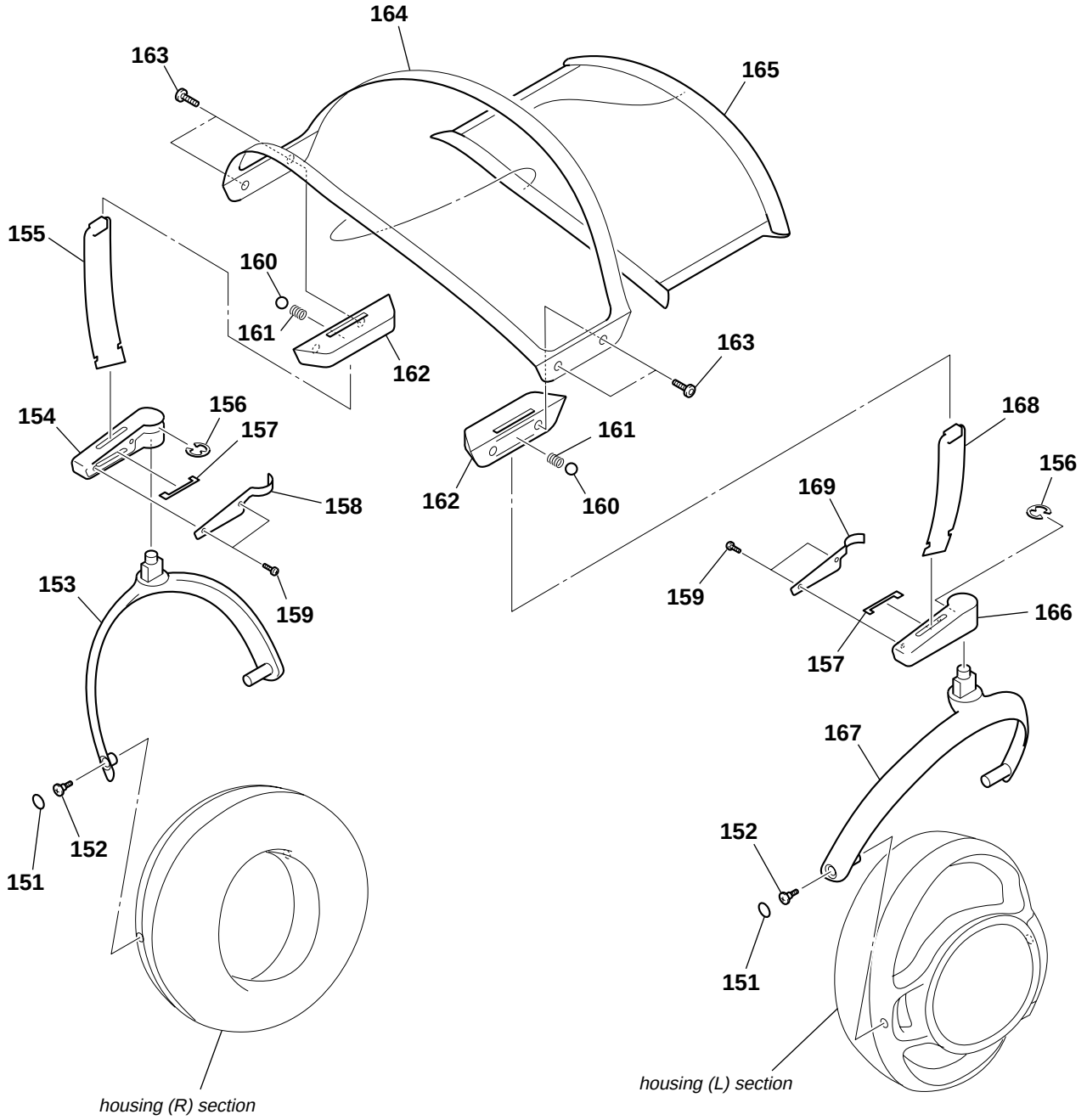
2-3. HOUSING (L) SECTION (MDR-SA1000/SA3000)



Ref. No.	Part No.	Description	Remark
101	2-546-965-01	EARPAD	
102	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
103	X-2025-343-1	PLATE (L) ASSY, FRONT (SA3000)	
103	X-2055-033-1	PLATE (L) ASSY, FRONT (SA1000)	
104	1-542-603-11	DRIVER (050F030) (SA3000)	
104	1-542-604-11	DRIVER (050F031) (SA1000)	
105	2-546-880-01	BUSHING	
106	2-546-885-01	SHEET, DRIVER	
107	2-549-886-01	CAP, DUMMY (SA3000)	
107	2-549-886-11	CAP, DUMMY (SA1000)	

Ref. No.	Part No.	Description	Remark
108	2-546-874-01	GRILLE BASE (L) (SA3000)	
108	2-549-727-01	GRILLE BASE (L) (SA1000)	
109	2-546-875-01	RING, ORNAMENTAL (SA3000)	
110	1-829-559-11	CORD (WITH PLUG) (SA3000)	
110	1-829-560-11	CORD (WITH PLUG) (SA1000)	
111	2-546-877-01	HOUSING	
112	2-546-871-01	FRAME (L) (SA3000)	
112	2-546-871-11	FRAME (L) (SA1000)	
113	2-546-873-01	GRILLE	

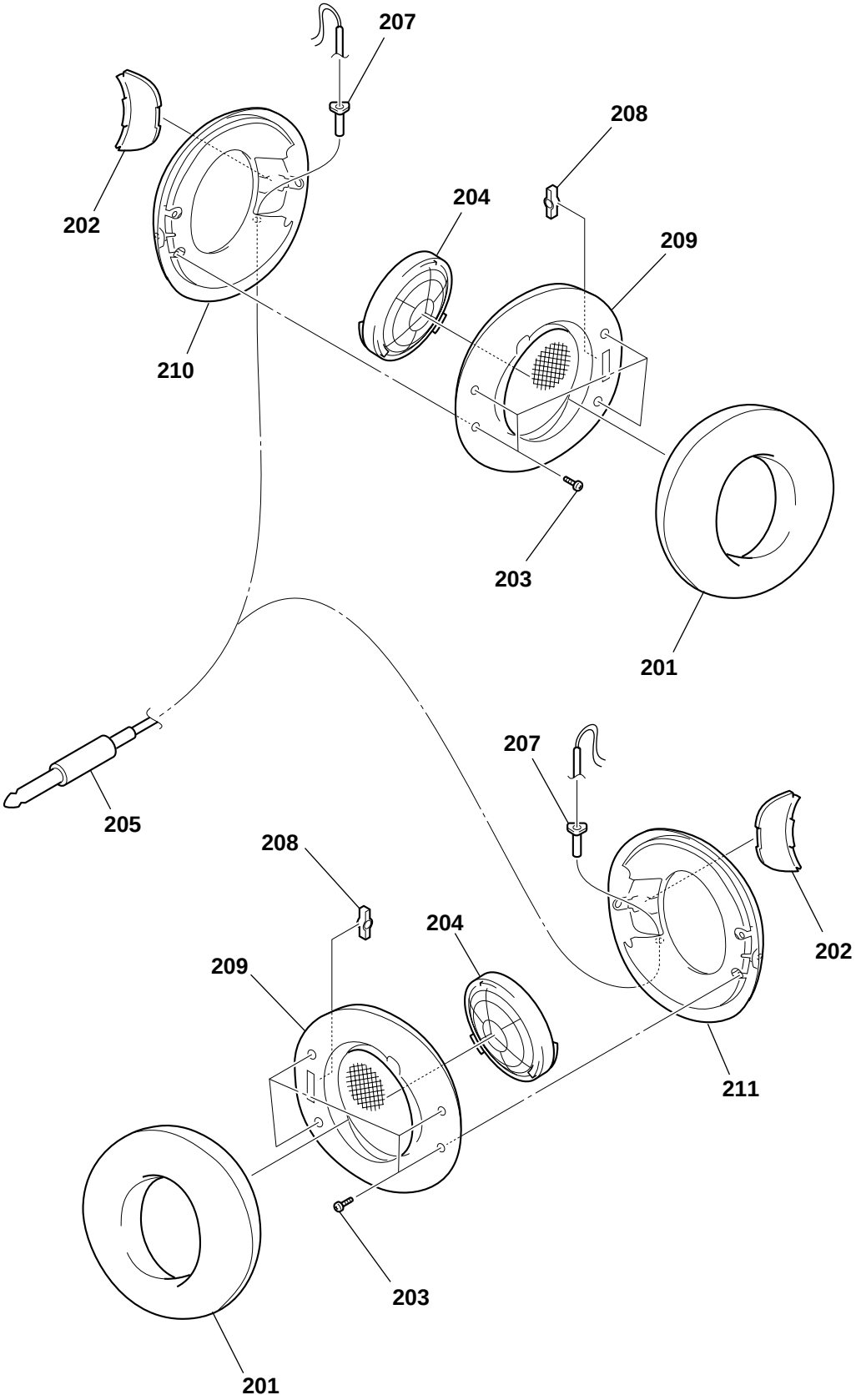
2-4. HEADBAND SECTION (MDR-SA5000)



Ref. No.	Part No.	Description	Remark
151	2-582-086-01	COVER, SCREW	
152	2-025-589-01	SCREW, STEP	
153	2-345-422-01	HANGER (R)	
154	2-345-424-01	HOLDER (R)	
155	X-2050-281-1	SLIDER ASSY (R)	
156	7-624-106-04	STOP RING 3.0, TYPE -E	
157	2-546-592-01	STOPPER, SLIDER	
158	2-345-426-01	LID (R), HOLDER	
159	3-254-149-01	SCREW (M1.7)	
160	7-671-155-01	STEEL BALL 3.0	

Ref. No.	Part No.	Description	Remark
161	2-113-146-01	SPRING, COMPRESSION	
162	2-345-551-01	CASE, CLICK	
163	2-345-553-01	STOPPER, HEAD BAND	
164	2-345-427-02	BAND, HEAD	
165	X-2024-612-1	CUSHION ASSY, HEAD	
166	2-345-423-01	HOLDER (L)	
167	2-345-421-01	HANGER (L)	
168	X-2050-280-1	SLIDER ASSY (L)	
169	2-345-425-01	LID (L), HOLDER	

2-5. HOUSING SECTION (MDR-SA5000)

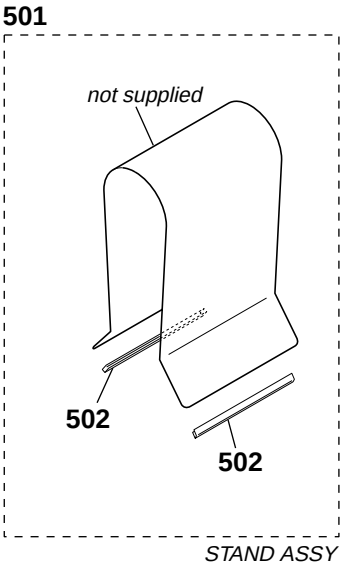


Ref. No.	Part No.	Description	Remark
201	2-345-306-01	PAD, EAR	
202	2-345-434-01	GUIDE, FINGER	
203	3-245-709-11	SCREW	
204	1-542-603-11	DRIVER (050F030)	
205	1-829-942-11	CORD (WITH PLUG)	

Ref. No.	Part No.	Description	Remark
207	2-345-546-01	BUSHING	
208	2-546-594-01	STOPPER, ROTARY	
209	X-2050-674-1	PLATE ASSY, FRONT	
210	X-2050-676-1	FRAME ASSY, (L)	
211	X-2050-675-1	FRAME ASSY, (R)	

ACCESSORIES

Ref. No.	Part No.	Description	Remark
	1-829-559-11	CORD (WITH PLUG) (SA3000)	
	1-829-560-11	CORD (WITH PLUG) (SA1000)	
	2-587-948-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH) (SA1000: US/SA3000: US)	
	2-587-948-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN, PORTUGUES) (SA1000: Canadian, AEP/ SA3000: Canadian, AEP, E)	
*	2-587-857-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH) (SA5000: US)	
	2-587-857-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN, PORTUGUES, CZECH, HUNGARIAN, POLISH, RUSSIAN, SLOVAKIAN) (SA5000: AEP)	
	4-985-107-02	POUCH (SA1000/SA3000)	
501	X-2050-282-1	STAND ASSY (SA5000)	
502	2-583-980-01	FOOT (STAND) (SA5000)	



MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.02	New